

ABSTRACT

Nanoparticulate titanium dioxide coating produced by educing
flocclulates of titanium dioxide nanoparticles from a titanyl
5 sulfate solution and dispersing the nanoparticles in a polar sol-
forming medium to make a sol suitable as a coating usable to
impart photocatalytic activity, U.V. screening properties, and
fire retardency to particles and to surfaces. The photocatalytic
material and activity is preferably localized in dispersed
10 concentrated nanoparticles, spots or islands both to save costs
and leverage anti-microbial effects.